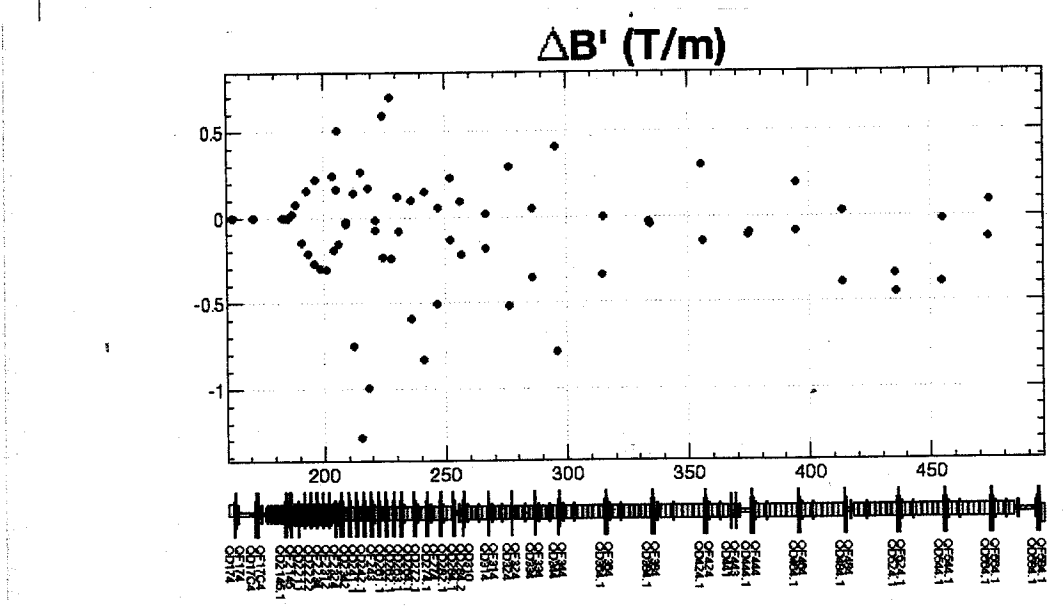
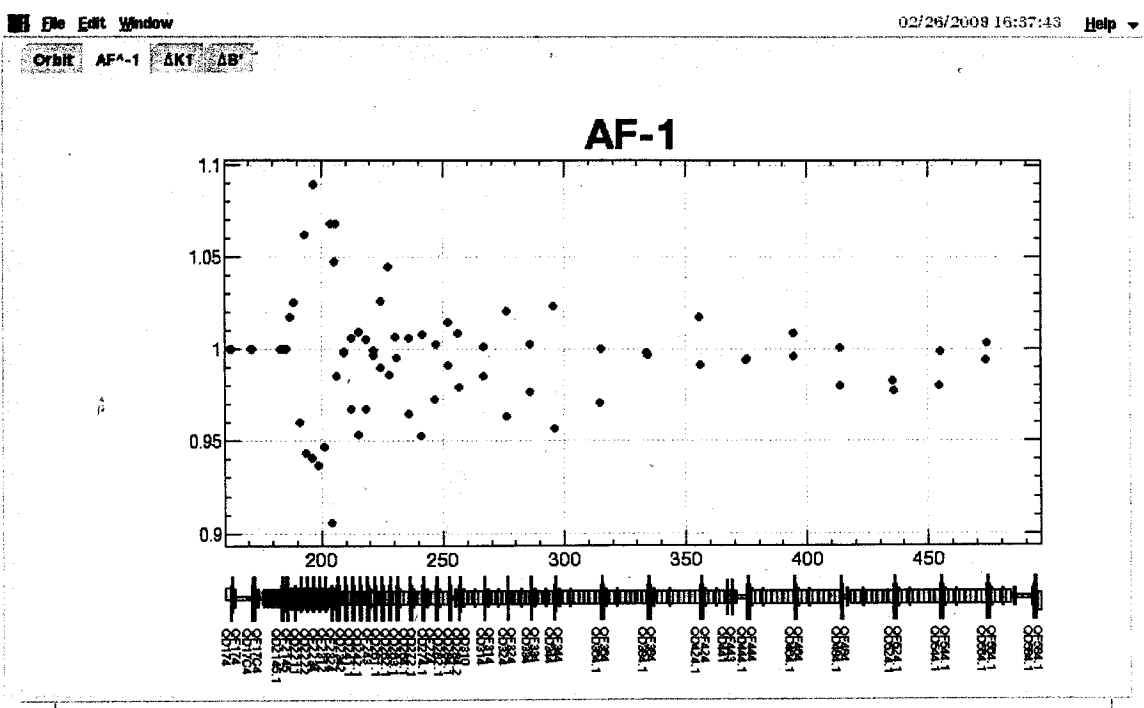


以下は 2日 共通電流 の DLF の 混合系 6data の 個別には

- | | | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------------------|-----------------------------|-------------|
| (GF2212
QD2213
GF2214 | (GF2221
QD2222 | (GF2223
QD2224 | (QD2231
GF2232
QD2232 | (QD2241
GF2242
QD2243 | 727235
" |
| (GF2312
QD2313 | (QD2321
GF2322
QD2323 | (QD2331
GF2332 | | | |

Fudge factor を 求めた 電流の 分布 (混合系)

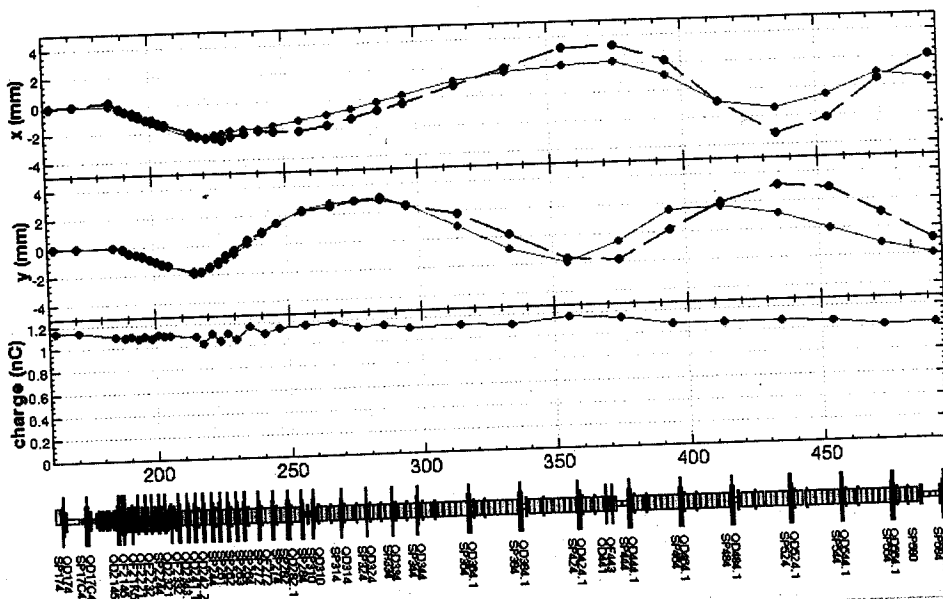
EPS
0.03



計算上の
予測

File Edit Window

Orbit AFA-1 ΔK1 ΔB'



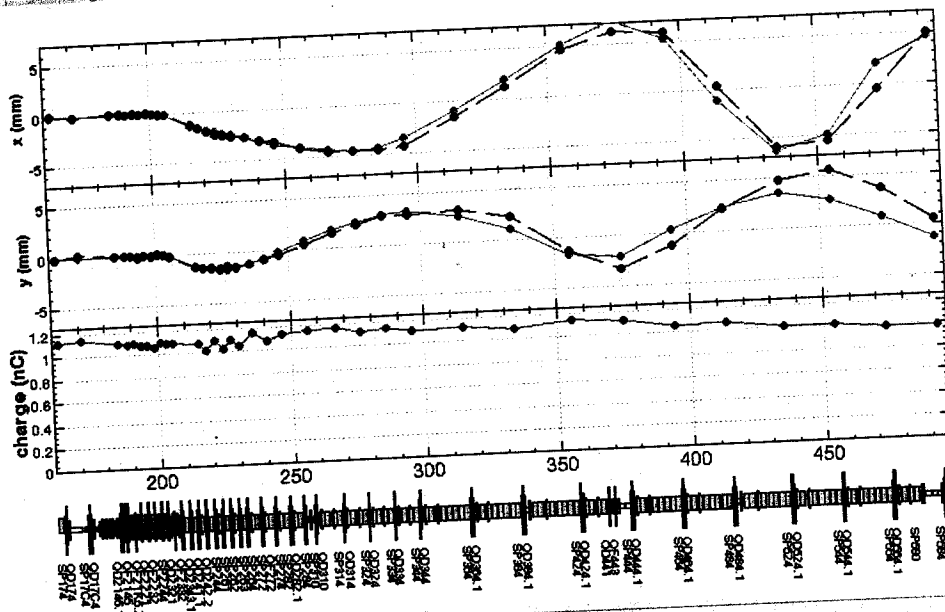
Read Optics		Steering SX_C1_1		Steering(X) K0		BX21K5		Select Q		average		Add			
s1(m)	160	Read	0	Set	9e-05	Clear		QDC14	K1	0	x	y	xy	EPS	.03
s2(m)	500	Clear ref	0	Steering(Y) K0	7e-05	Clear		QFC14	AF	1	5	5	5	Calc	
Set ref	I(A)	Plot orbit	0	Set				QDC24	Set ref		Plot			Show Fudge	
Clear ref	Δ(A)	File	temp.dat	Set ref				QFC24	Set		Set ref			Set Fudge	
Plot orbit		Write DATA						QDC34			90225-stb2345			Clear Fudge	
File	temp.dat							QDC44			Read X&Y data			Create Fudge	
Write DATA								QDC44							
								QDC54							
								QFC54							

Open file is 20090225-stb2345.fy21k5_2.dat

02/26/2009 16:32:17 Help

File Edit Window

Orbit AFA-1 ΔK1 ΔB'

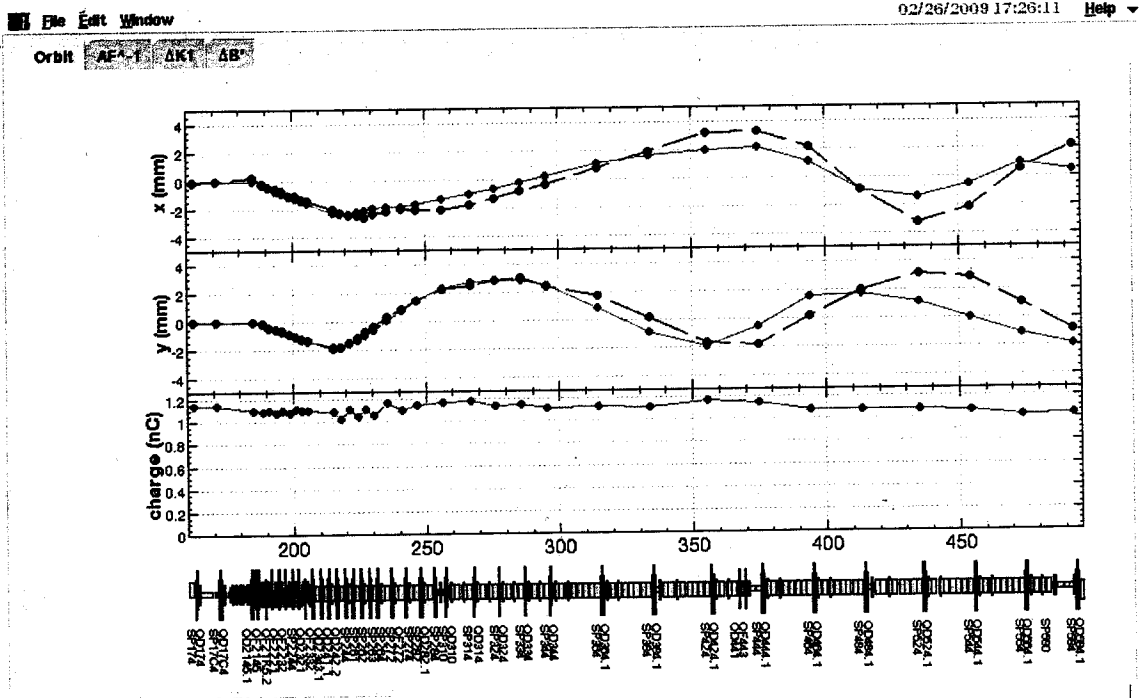


Read Optics		Steering SX_C1_1		Steering(X) K0		BX234		Select Q		average		Add			
s1(m)	160	Read	0	Set	.00013	Clear		QDC14	K1	0	x	y	xy	EPS	.03
s2(m)	500	Clear ref	0	Steering(Y) K0	.00012	Clear		QFC14	AF	1	7	7	7	Calc	
Set ref	I(A)	Plot orbit	0	Set				QDC24	Set ref		Plot			Show Fudge	
Clear ref	Δ(A)	File	temp.dat	Set ref				QFC24	Set		Set ref			Set Fudge	
Plot orbit		Write DATA						QDC34			90225-stb2345			Clear Fudge	
File	temp.dat							QDC44			Read X&Y data			Create Fudge	
Write DATA								QDC44							
								QDC54							
								QFC54							

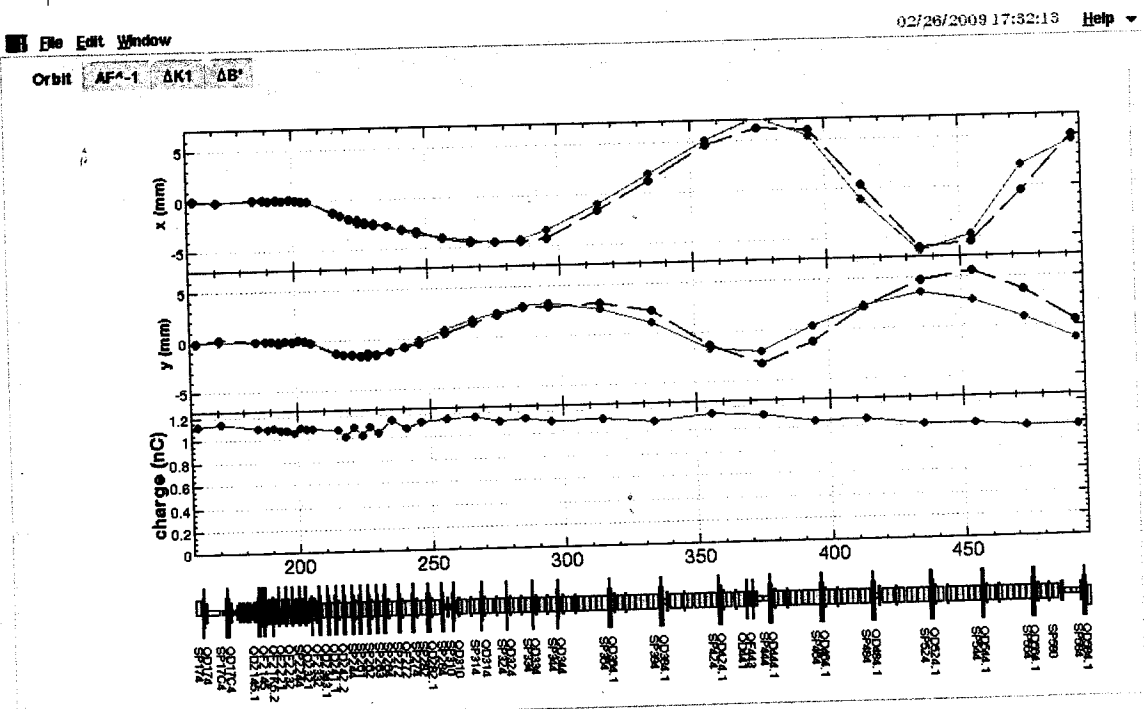
Open file is 20090225-stb2345.fy234_2.dat

fudgeを
設定した。

BX21K5
BY21K5



BX234
BY234



実際に Fudge を設定した。
一回 前面と再現しているか OK である。

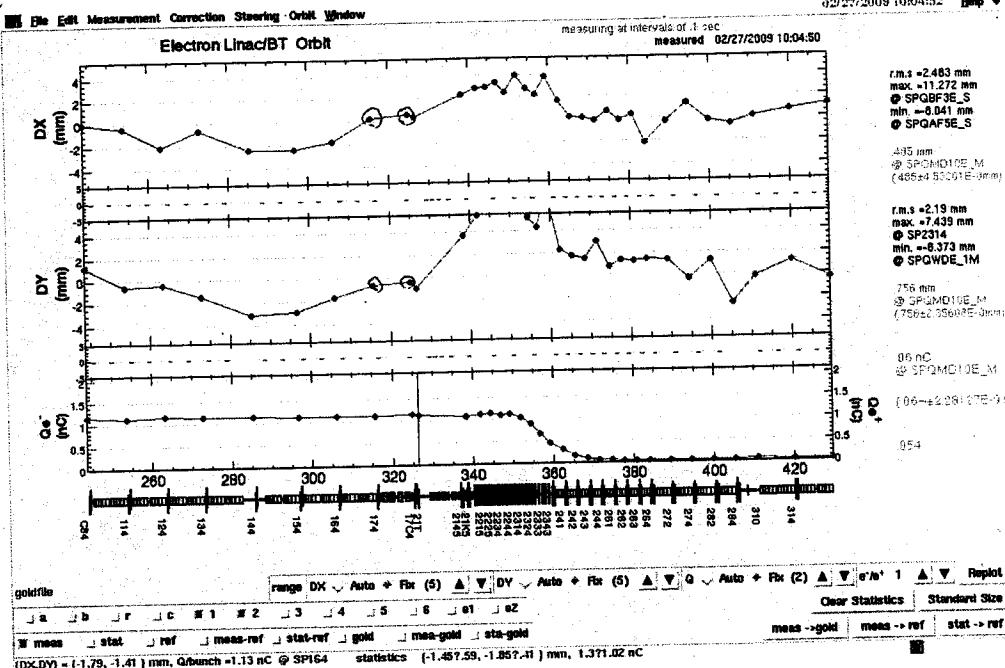
		LINAC		KEKB		e+		Read	
Quad	Read (I/B)	File (I/B)		Steering		Read (I)	File (I)		
QF_16_4	7.396	26.8141	7.396	26.8141	SY_15_3	2.001	2.001		
QD_17_4	.000	.0000	.000	.0000	SX_16_1	.001	.001		
QF_17_4	.000	.0000	.000	.0000	SY_16_1	.001	.001		
QD_17_C4/5	.000	.0000	.000	.0000	SX_16_3	.001	.001		
QF_17_C4/5	.000	.0000	.000	.0000	SY_16_3	.001	.001		
QD/D_21_45	.000	.0000	.000	.0000	SX_17_1	.001	.001		
QF_21_45	.000	.0000	.000	.0000	SY_17_1	.001	.001		
QD/D_21_K5	.000	.0000	.000	.0000	SX_17_3	.001	.001		
QF_21_K5	.000	.0000	.000	.0000	BY_17_C1	.001	.001		
QD_22_11	.000	.0000	.000	.0000	BX_17_41	.001	.001		
QF/D/F_22_12	.000	.0000	.000	.0000	BX_17_42	.001	.001		
QD_22_15	.000	.0000	.000	.0000	BX_17_C5	.005	.005		
QF/D_22_21/2	.000	.0000	.000	.0000	BY_17_C5	.005	.005		
QF/D_22_23/4	.000	.0000	.000	.0000	SX_21_1	.001	.001		
QF_22_25	.000	.0000	.000	.0000	SY_21_1	.001	.001		
QD/F/D_22_31	.000	.0000	.000	.0000	SX_21_2	.001	.001		
QF_22_34	.000	.0000	.000	.0000	SY_21_2	.001	.001		
QD/F/D_22_41	.000	.0000	.000	.0000	SX_21_31	.001	.001		
QF_22_44	.000	.0000	.000	.0000	SY_21_31	.001	.001		
QD_23_11	.000	.0000	.000	.0000	SX_21_41	.001	.001		
QF/D_23_12/3	.000	.0000	.000	.0000	SY_21_41	.001	.001		
QF_23_14	.000	.0000	.000	.0000	BX_21_K5	.001	.001		
QD/F/D_23_21	.000	.0000	.000	.0000	BY_21_K5	.001	.001		
QF_23_24	.000	.0000	.000	.0000	BX_22_32	.001	.001		
QD/F_23_31/2	.000	.0000	.000	.0000	BY_22_31	.001	.001		
QD_23_33	.000	.0000	.000	.0000	BX_23_12	.001	.001		
QF_23_41	.000	.0000	.000	.0000	BY_23_11	.001	.001		
QD_23_42	.000	.0000	.000	.0000	BX_23_31	.001	.001		
QD/D_23_43	.000	.0000	.000	.0000	BY_23_31	.001	.001		
QF_23_43	.000	.0000	.000	.0000	BX_23_4	.001	.001		

Read Save File Diff
 Select Clear Set Magnet

Read Save File Diff
 Select Clear Set Magnet

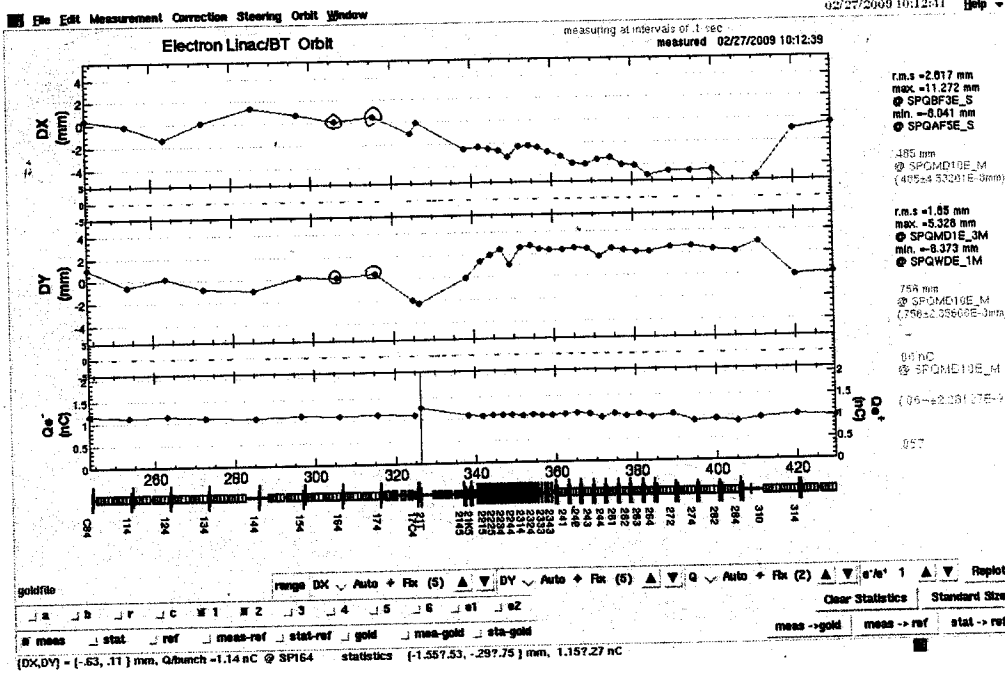
Amn\hadata1\b\data\LINAC\LCG\magnet\2009\02\skip20090227-10:04:17
 Save file to Adata\LINAC\LCG\magnet\2009\02\skip20090227-10:04:19

Amn\hadata1\b\data\LINAC\LCG\magnet\2009\02\skip20090227-10:04:19



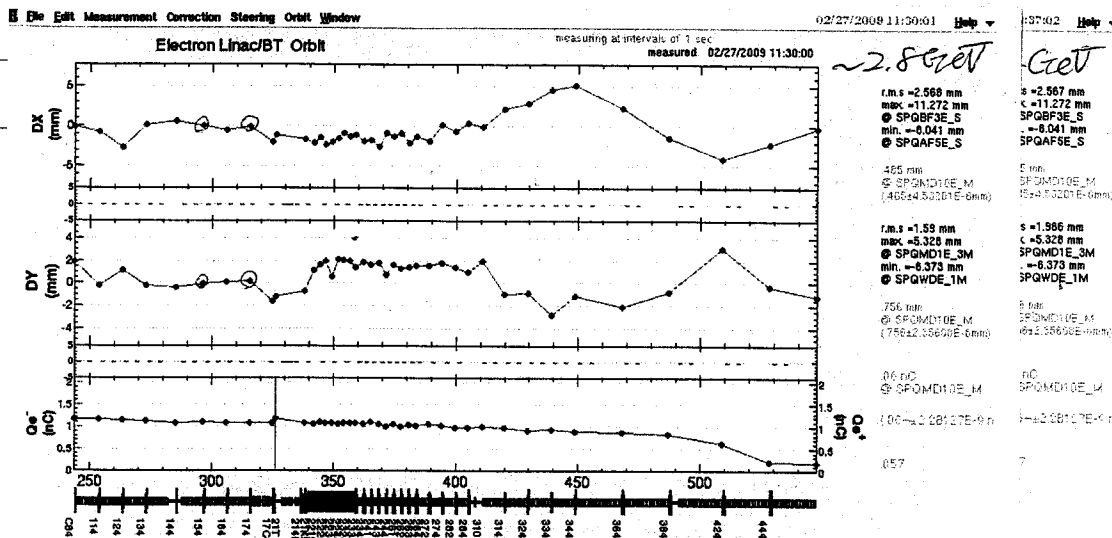
2019-~~11~~ 12
stb
~4 GeV

SP17A
SP17C4

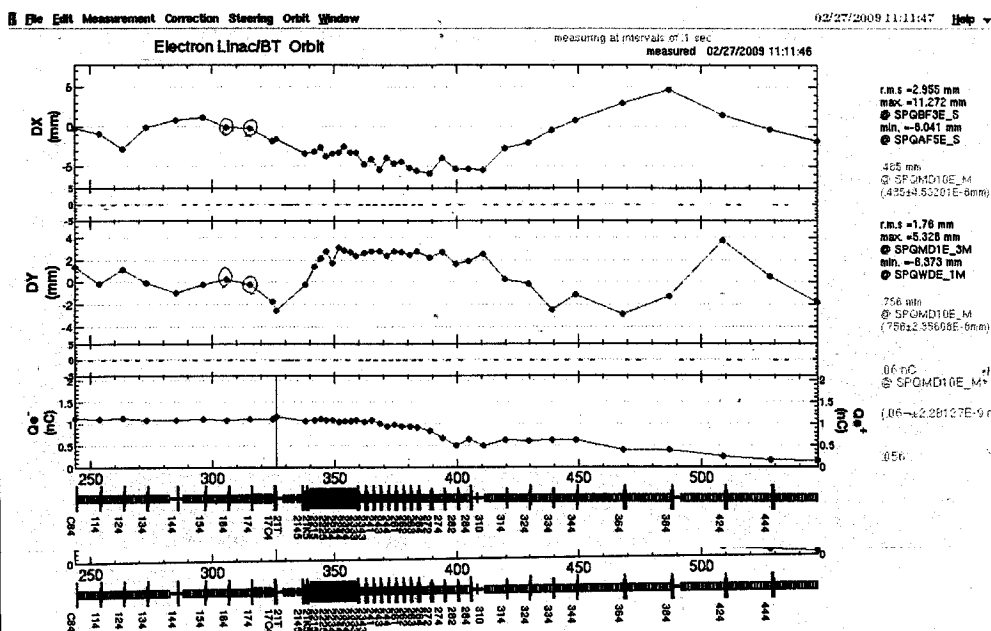


SP114
SP17A

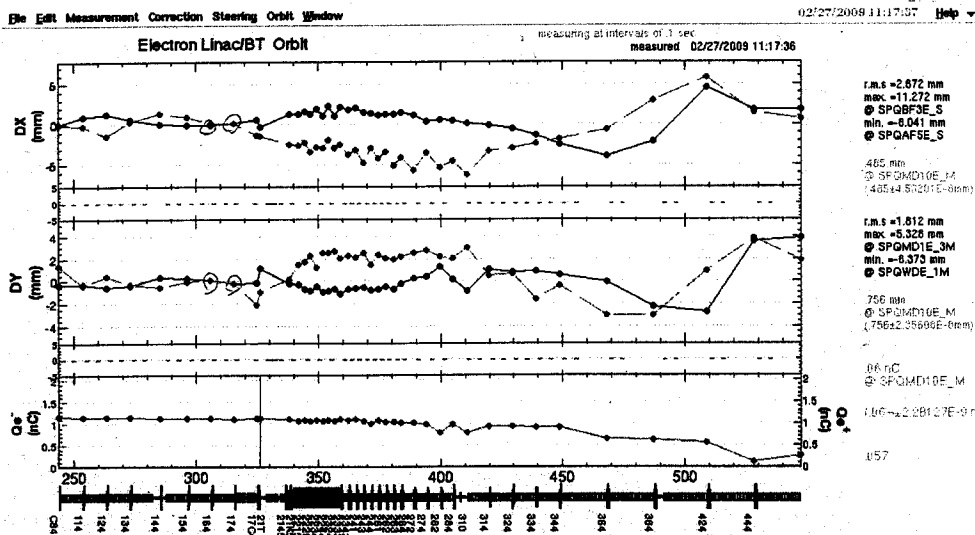
이러한 BPM은 변위 측정과 동일한 방식으로 작동한다.



2セクタ以降
あまり軌道が
出ない
(4セクタ)
2.8 GeVに
工初キを
変えても同じ



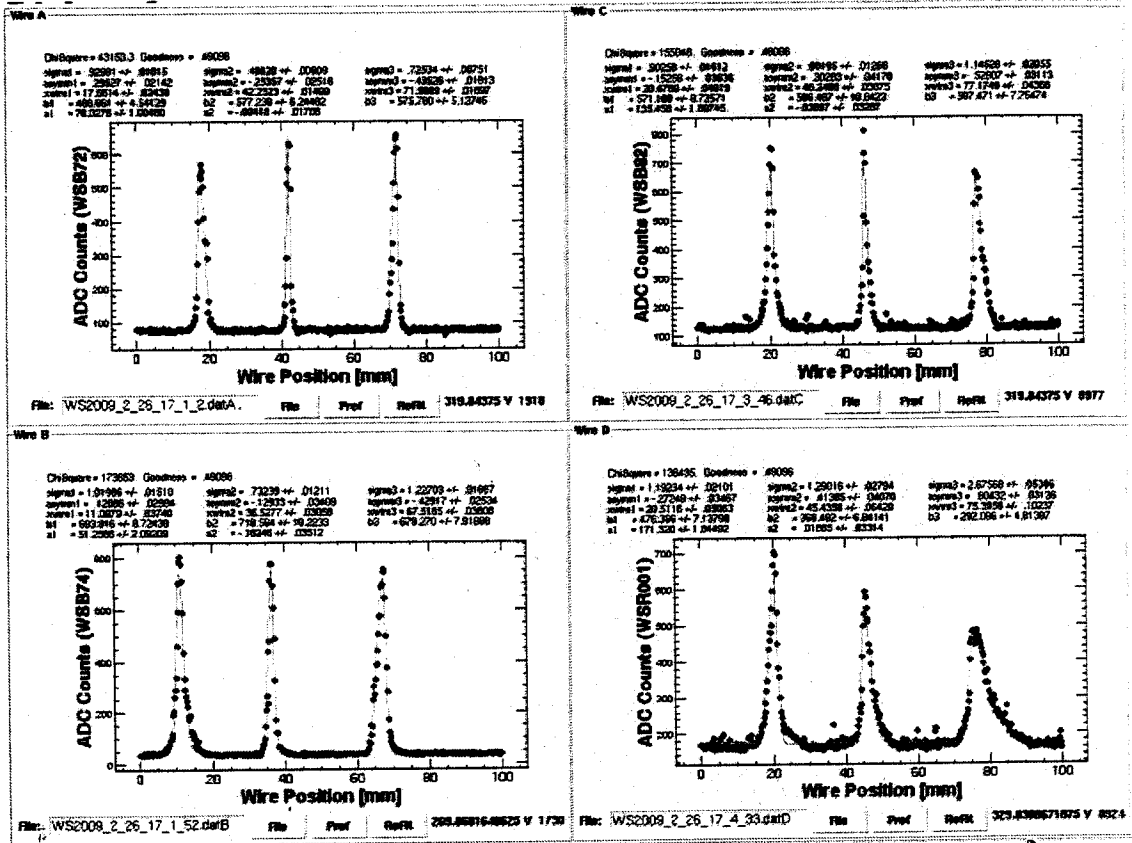
1セクタ-
Stb.
~2.86 GeV
これを ref.
に入れた



青: 4.0 GeV
赤: 4.0 GeV
- 2.8 GeV
工初キで
あまり変化が
みられない

B e 77 -

LER \bar{e} Matching 後の LER



Hard Copy

File: WS2009_2_26_17_1_2.datA File Prof RefR 319.84375 V 1918

File: WS2009_2_26_17_3_46.datC File Prof RefR 319.84375 V 8977

File: WS2009_2_26_17_1_52.datB File Prof RefR 289.898164625 V 1730

File: WS2009_2_26_17_4_33.datD File Prof RefR 329.8398671875 V 8524

8/26/2009 17:05:59 Help

Wire Scan Optics Calculate Matching

X phase space at Wire A X phase space at Matching Point

Y phase space at Wire A Y phase space at Matching Point

Results of Measurement	
$R_x @ \text{SCREEN} [\mu]$	30.236 $R_y @ \text{SCREEN} [\mu]$: 4.503
$\alpha_x @ \text{SCREEN}$	11.324 $\alpha_y @ \text{SCREEN}$: 1.126
$C_x [\mu]$	5.9315E-8 $C_y [\mu]$: 1.0121E-7
$\gamma_{C_x} [\text{r.m.m./mrad}]$	210.637 $\gamma_{C_y} [\text{r.m.m./mrad}]$: 336.715
CDmag x :	1.121 CDmag y : 1.036
CDmag x :	5.4637E-8 CDmag y : 1.0463E-7
$\gamma_{CDmag} x :$	215.037 $\gamma_{CDmag} y :$ 348.743

Optics Plot

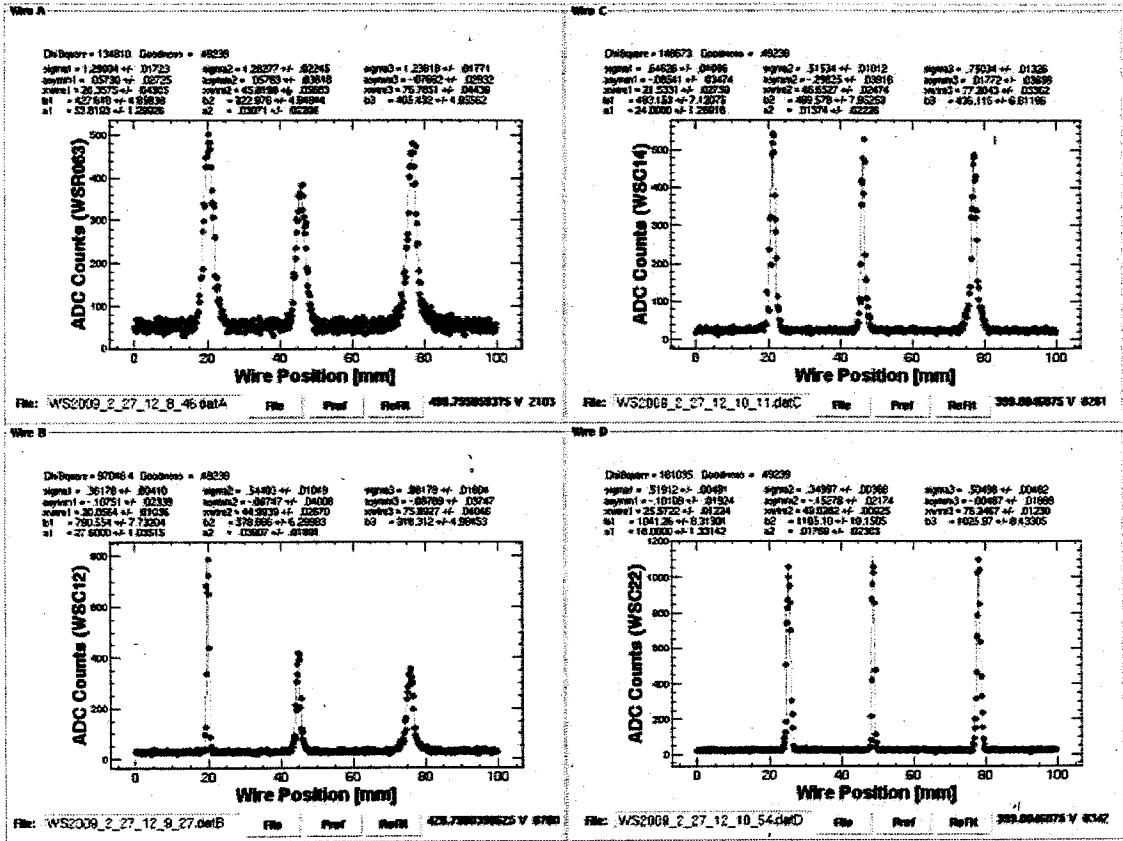
Wire Selection
 3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD
 4-wire:ABCD
 NonLinearFit Err(meas), nG 0 Err(opt) (%) : 0

*Calculate Optics Save All Parameters

All informations are SAVED to Adata1\KEKB\Wire\LINAC\sectorB\positron\data\MatchResult\WSLB_2009_2_26_17_5_11

CeS-

HER \bar{e} Matching 後の HER



Main Application Area

File Edit Window 02:27:12:04 12/12/20 Help

Wire Scan Optics Calculator **Matching**

X phase space at Wire A

X phase space at Matching Point

Results of Measurement

$R_x @ \text{ODOC24} [\mu]$	6.551	$R_y @ \text{ODOC24} [\mu]$	11.901
$C_x @ \text{ODOC24}$	-5.43	$C_y @ \text{ODOC24}$	-8.04
$E_x [\mu]$	$1.455E-9$	$E_y [\mu]$	$1.782E-9$
$\gamma C_x [\text{r.m.m.mrad}]$	57.716	$\gamma C_y [\text{r.m.m.mrad}]$	70.817
Drng x:	1.000	Drng y:	1.010
EDrng x:	$1.455E-9$	EDrng y:	$1.800E-9$
$\gamma \text{Drng} x$:	57.716	$\gamma \text{Drng} y$:	71.651

Optics Plot

Y phase space at Wire A

Y phase space at Matching Point

Wire Selection

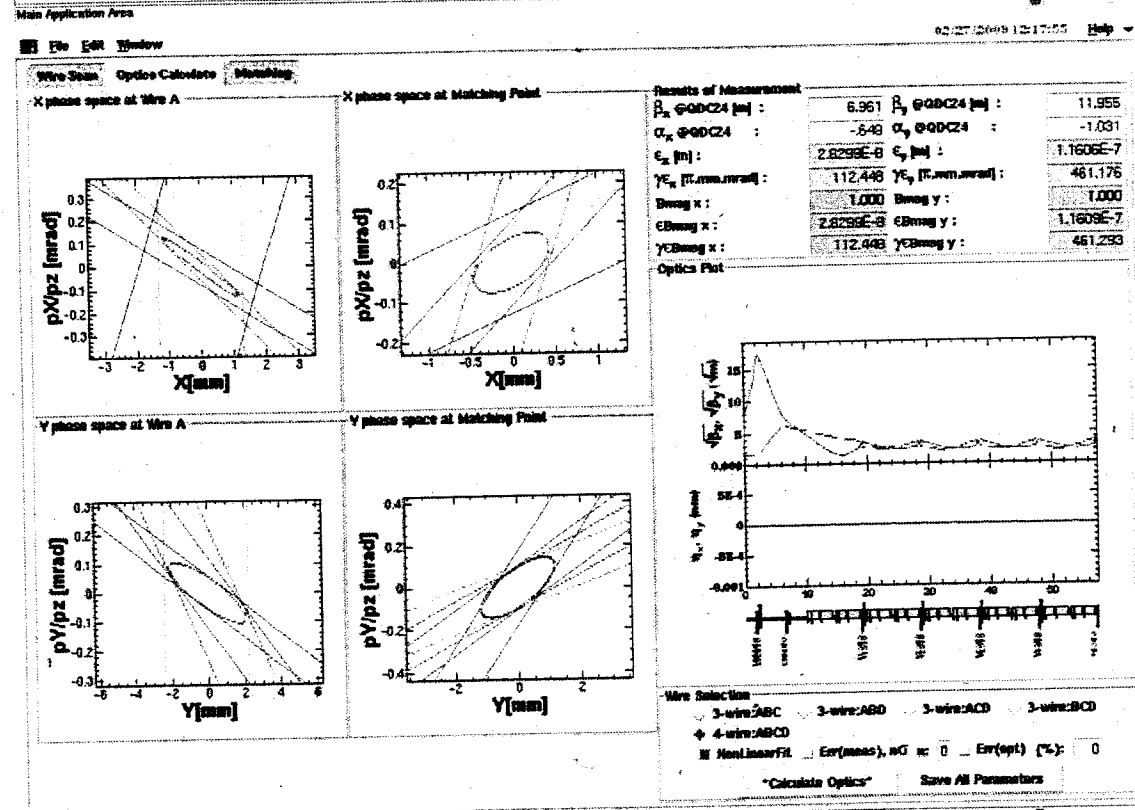
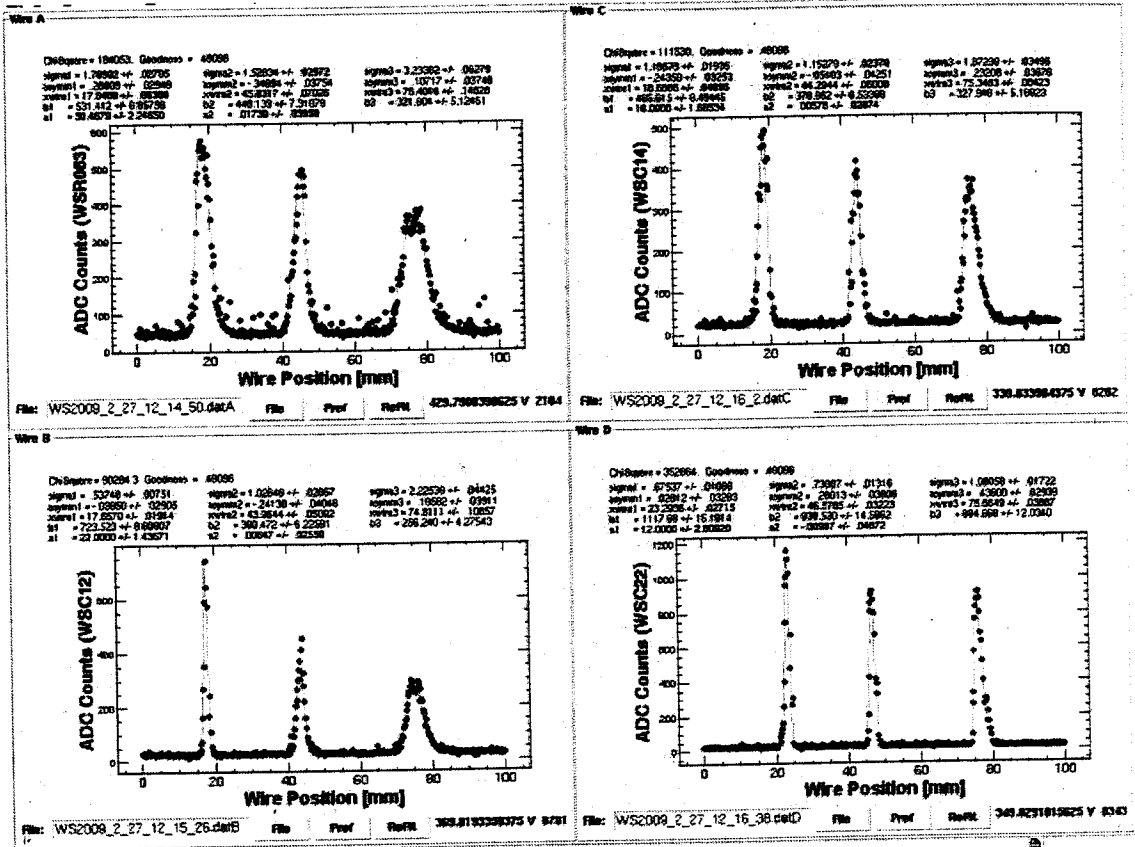
3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD
 4-wire:ABCD

NonLinearFit Err(mono), NS sc: Err(opt) (%):

Calculate Optics Save All Parameters

All informations are saved to: data1\KEKB\Wire\SWACharacter\ElectronData\MatchResult\WSLC_2009_2_27_12_11_30

Ce77- (HER i Matching 後)
LER mode parameter 測定

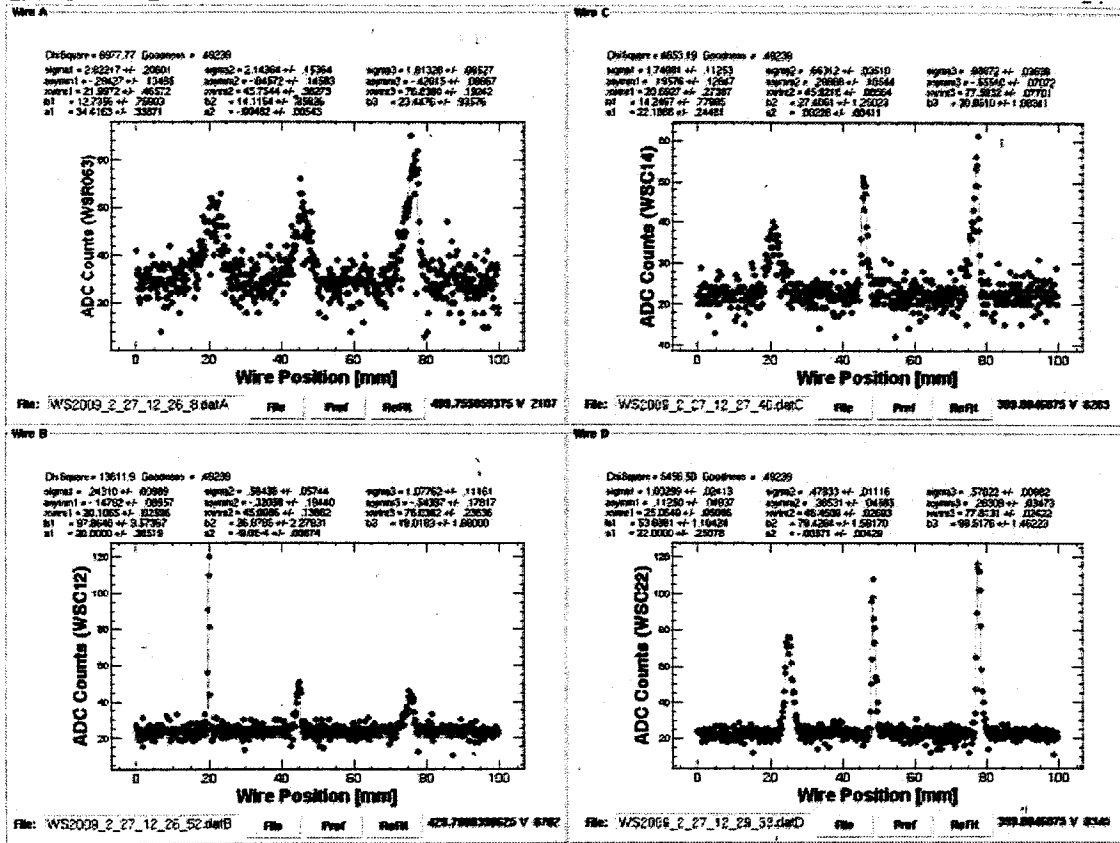


All informations are SAVED to Adata1/KEKB/Wire/LINACsector/Cepontrondata/MatchResult/WSLC_2009_2_27_12_17_32

Ce99 - (HERI Matching 後)

120

PT mode parameter 測定



Main Application Area

File Edit Window (C:\271204\1230\14 Help)

Wire Scan Optics Calculate Matching

X phase space at Wire A X phase space at Matching Point

Y phase space at Wire A Y phase space at Matching Point

Results of Measurement

$\beta_x @00C24 [m]$	2.923	$\beta_y @00C24 [m]$	11.832
$\alpha_x @00C24$	-1.534	$\alpha_y @00C24$	-1.255
$C_{xx} [m]$	4.1109E-8	$C_{yy} [m]$	3.2403E-8
$\gamma_{xx} [1/m-rad]$	163.352	$\gamma_{yy} [1/m-rad]$	128.757
Beam x :	3.228	Beam y :	1.024
CBmag x :	1.2187E-7	CBmag y :	2.3183E-8
$\gamma_{CBmag x}$	524001	$\gamma_{CBmag y}$	121.856

Optics Plot

Wire Selection

3-wire:ABC 3-wire:ABD 3-wire:ACD 3-wire:BCD
 4-wire:ABCD
 NonLinearFit Err(mass), nG n: 0 Err(opt) (%): 0

Calculate Optics Save All Parameters

All informations are SAVED to Data1\KEKB\Wire\LINAC\sector\ChaelectronData\MatchResult\NSLC_2009_2_27_12_30_18